

## Viatores Mobility



**Solutions for Public Safety**



## ► Our Business

- Ecutel is a leading provider of secure access solutions for mobile workers and those who support them

## ► History

- Founded in 1997, core technologies originated during consultancy with the DoD. Ecutel software is sold worldwide by leading technology integrators – Hewlett Packard, Siemens, and Matsushita



## ► Management Team

- Chairman: Jack McDonnell
- CEO: Tom Matthews
- CTO: Dzung Tran

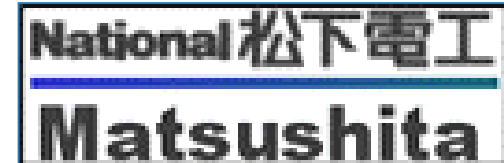


## Business Partners

### Global Solution Partners



Siemens Business Services



### Wireless Carrier Partners



### Public Safety Partners



- ▶ **Security risks**
- ▶ **Multiple network protocols**
- ▶ **Complexity for end-users**
  - ▶ Stop active applications
  - ▶ Reconfigure the mobile device
  - ▶ Establish required security (VPN)
  - ▶ Control inactive network connections
  - ▶ Restart applications
  - ▶ Reboot the device

**Gartner**

*“You should treat a wireless LAN like an untrusted network outside of the firewall”*

**CNN.com**

*“Off-the-shelf hack breaks wireless encryption”*

**Data users have portability, NOT mobility**



*City and County of*  
**HONOLULU, HAWAII**



## Profile

- ▶ Population: 892,000 (4 mil. visitors)
- ▶ 11<sup>th</sup> largest city (by pop.)
- ▶ 40<sup>th</sup> largest county
- ▶ Area: 600 sq. miles (Oahu)

## Public Safety Vehicles

- ▶ 1,200 Police Cruisers
- ▶ 200 Additional for “First Responders”
  - Emergency Services
  - Fire
  - Civil Defense

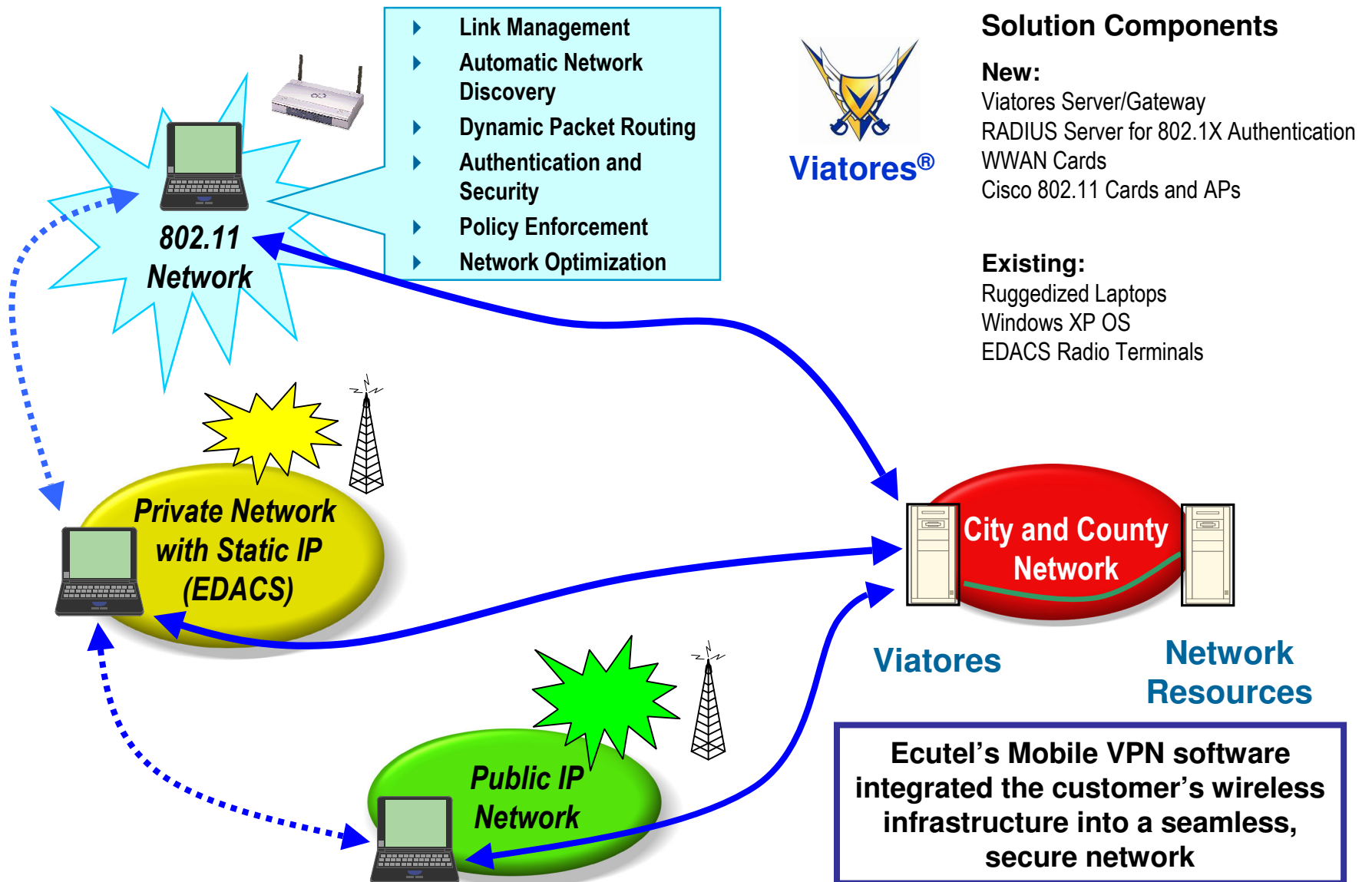
## Existing Network (EDACS)

- ▶ Half duplex 800 MHz private radio system
- ▶ Not designed for higher bandwidth applications
- ▶ Nearing capacity limits
- ▶ Prohibitive maintenance/upgrade costs

## Primary Applications

- ▶ PacketCluster® Patrol
- ▶ Email
- ▶ File sharing

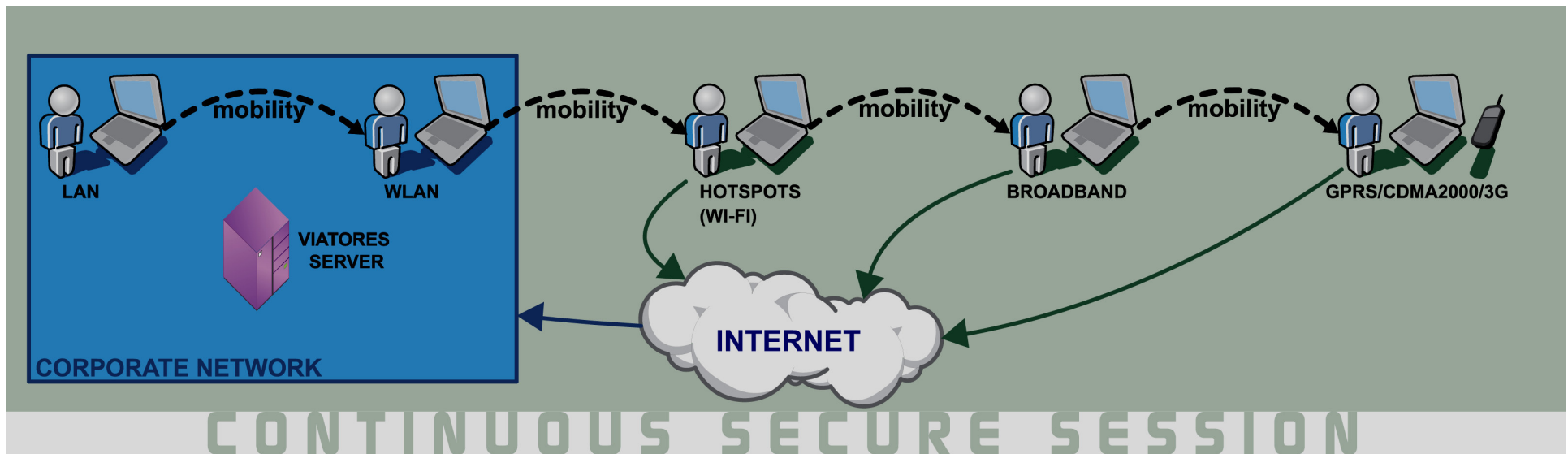
- ▶ **EDACS network was not designed to handle “enterprise” applications and had reached its capacity limit**
- ▶ **Maintenance and upgrade costs for the the system were high in comparison to newer WLAN and WWAN technologies**
- ▶ **The customer needed a way to provide wireless access to higher-bandwidth applications at a reasonable cost**





**Next Generation VPN that seamlessly  
integrates**

**Mobility, Security, and Network Optimization**



**Expands your LAN to seamlessly and securely include wireless networks**



## **Mobility**

- ✓ Always-on with any network connection
- ✓ Bandwidth prioritization and compression
- ✓ Seamless roaming across heterogeneous networks, no application or device restart
- ✓ Industry **Mobile IP standard** compliance

## **Security**

- ✓ Authentication, data integrity and encryption
- ✓ No Firewall ports opened
- ✓ Auto-invoke security
- ✓ Two-factor authentication token support
- ✓ Industry **IPSec standard** compliance



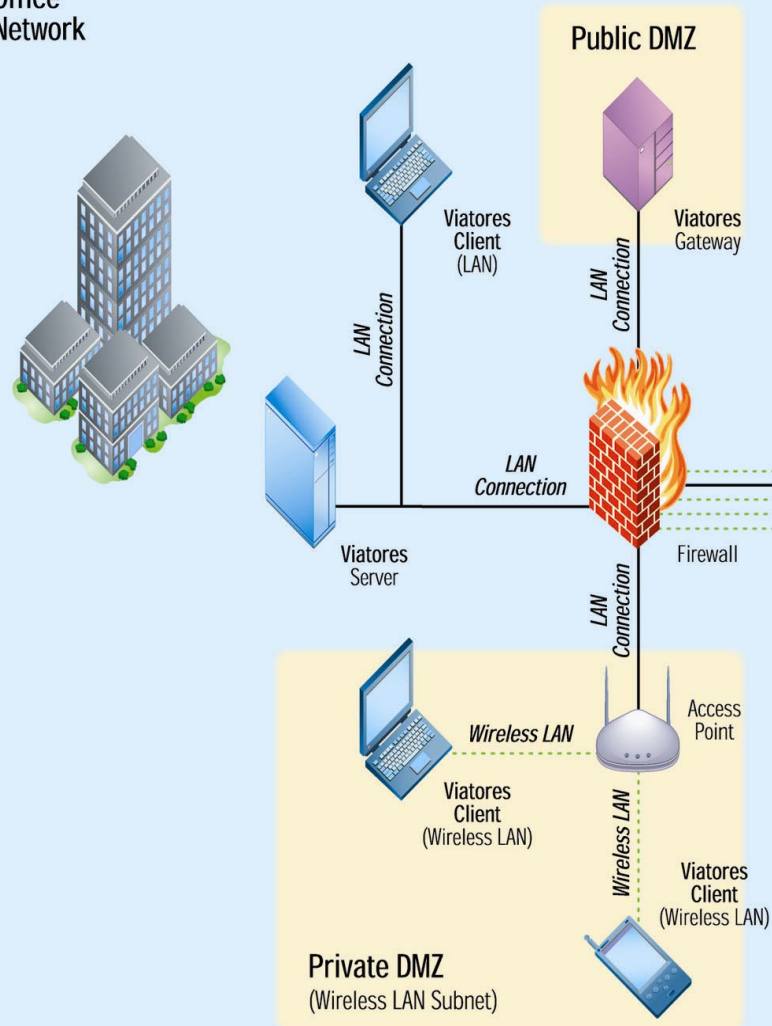
# Mobile Management Features



Ecutel offers mobile access to system and network management tools, and Command Authoring wizards for creating customized “point-and-click” functionality for IT Administrators.

**Wired to Wireless<sup>SM</sup>**

## Office Network



Viatores Client  
(Wired or  
Wireless LAN)

Viatores Client  
(Wireless LAN)

## Public Fixed Network

- Cable
- DSL
- Hot Spot

## Public Mobile Network

- CDMA 2000
- CDPD
- GPRS

## ▶ **Network Interoperability**

- ▶ **Private Networks:** LAN (802.3), WLAN (802.11), VLAN (Layer 3) and Bluetooth, Private IP Radio Networks
- ▶ **Wireless Public Networks:** Wi-Fi Zones (hot spots), GPRS, 1XRTT, EV-DO, CDMA, CDPD, NTT DoCoMo, GSM-Data, EDGE, UMTS and HSCSD
- ▶ **Wired Public Networks:** POTS, DSL, Cable and ISDN

## ▶ **Standards and RFC's**

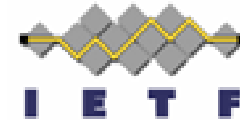
- ▶ **Mobile IP:** 2002-2005, 2344, 2006
- ▶ **IPSec:** 2401-2410
- ▶ **PKI, RSA, DSA, DES, 3DES, IKE, MD5, SHA, RADIUS, Microsoft Active Directory, RSA SecurID, SNMP, Smartcard, PKCS-7, PKCS-10, PKCS-12, SNMP, NAT/NAPT Traversal**

## ▶ **Enterprise Platforms**

- ▶ **Client:** Windows 98, ME, 2000, XP, Pocket PC
- ▶ **Server:** Windows Server 2003, Windows 2000, Linux

## ▶ **Standards-based Architecture**

- ▶ Only solution based on trusted IETF standards
- ▶ Optimize your mobility without compromising security



## ▶ **OS Independent Design**

- ▶ Portable to multiple operating systems
- ▶ Less vulnerable to exploitation of security weakness specific to any operating system

## ▶ **Support for Any Network Architecture**

- ▶ Interoperates with existing back-end network infrastructure
- ▶ Use with Active Directory, RADIUS, Novell, LDAP, RSA SecurID authentication





## ► **Network Administration**

- Administrator can use Viatores Manager to control Viatores server and clients from workstation or desktop
- Remote Management of Viatores server from PDA, BlackBerry handheld, Smart Phone, or secure Web Client through IC<sup>2</sup> toolset
- Single-vendor solution

## ► **Network Switching by Policy**

- Select by best available bandwidth or least cost
- Administrators may set priorities based on any factor relevant to the customer

## ► **Network Device Agnostic**

- Does not require specific devices for optimized performance
- Other solutions may limit you to certain types of modems

## ▶ **Security Exceeds Traditional VPN Standards**

- ▶ Does not require opening firewall ports to the public
- ▶ Viatores Gateway authenticates users outside the firewall before allowing users inside

## ▶ **Scalability**

- ▶ Cryptographic hardware acceleration
- ▶ Server clustering support
- ▶ Support for primary and secondary authentication servers

## ▶ **Proven Technology**

- ▶ Fortune 100 Enterprise and Government customers with implementations ranging from 25 to several thousand users
- ▶ Viatores is re-branded and sold worldwide by global resellers, HP Open Roaming, Siemens Mobilis, and Matsushita NetCocoon





## Contact Information

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